

TTCGGATCCTTGGACCTTCCCGGTTCTTCTACCCCATTTCTGGCCCTTGAGCCCAGGGAGCGAGGGCAGTG
TGGTTAATGGGGAGAGCCATGCATCCGGGACCACCACTCTCACAGACTGCCTGCGAAGATTTACCAGACC
AGAGCACTTAGGAAGCAGTGCCAAGATCAAGTGTAGCGGTTGCCATAGCTACCAAGAGTCCACAAAGCAG
CTCACCATGAAGAAGCTGCCCATTGTGGCCTGTTTCCATCTCAAACGATTTGAACACTCAGCCAAACTTC
GGCGGAAGATCACCACATATGTGTCTTTTCCCTGGAAGTGGACATGACGCCCTTCATGGCCTCCAGCAA
AGAGAGCAGGATGAATGGGCAATACCAGCAGCCCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTG
TTTGCTGTCGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTCATCCGGCAGC
ACAAAGACCAGTGGTTCAAGTGTGATGACGCCATTATCACCAAGGCCAGCATCAAAGATGTACTGGACAG
TGAAGGGTACTACTCTTCTATCACAAACAGTTCCTGGATTACGAGTAGCTCCTGCCTTGCTGGCCAGAGA
AAGAGAGAGA (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

TTCGGATCCTTGGACCTTCCCAGTTCTTCTACCCCATTCTGGCCCTTGAGCCCAGGGAGC
GAGGGCAGTGTGGTTAATGGGGAGAGCCATGCATCCGGGACCACCACTCTCACAGACTGC
CTGCGAAG [ATTTACCAGACCAGAGCACTTAGGAAGCAGTGCCAAGATCAAGTGTAGCGGT
TGCCATAGC] TACCAAGAGTCCACAAAGCAGCTCACCATGAAGAAGCTGCCCATTGTGGCC
TGTTTCCATCTCAAACGATTTGAACACTCAGCCAAACTTCGGCGGAAGATCACCACATAT
GTGTCTTTTCCCCTGGAAGTGGACA [TGACGCCCTTCATGGCCTCCAG] CAAAGAGAGCAGG
ATGAATGGGCAATACCAGCAGCCCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTG
TTTGCTGTCGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTCATCCGG
CAGCACAAGACCAGTGGTTCAAGTGTGATGACGCCATTATCACCAAGGCCAGCATCAAA
GATGTACTGGACAGTGAAGGGTACTACTCTTCTATCACAAACAGTTCCTGGATTACGAGT
AGCTCCTGCCTTGCTGGCCAGAGAAAGAGAGAGA

Gene Sequence
Structure *

190 bp

Sequence Deleted

325 bp

Size of EST
contig: 634 bp

FIGURE 2A

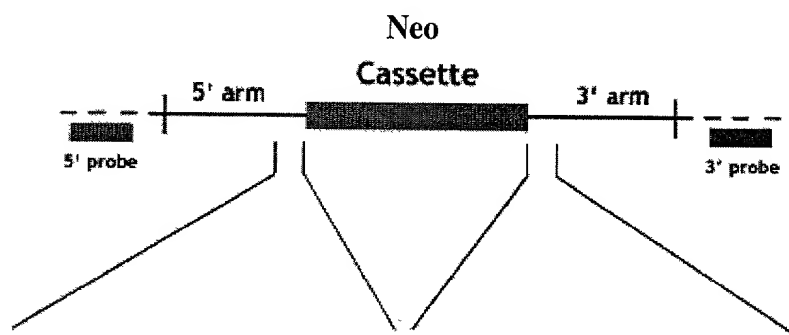
Targeting Vector* (genomic sequence)

Construct Number: 2869

Arm Length:

5': 0.4 kb

3': 3.5 kb



5' >AGATGACACCTTTAACTACTG
GTGAACTTTGAGTGATAAAATAAT
CTGTTCCCCTTTCTTCCATGTCCT
CATGTCTTTTACTTTTCCCCTTTC
CATGTTTATTTTTTAAATAAAAAC
ACGTTTTTTAAATGCCTTGTAGAT
TTACCAGACCAGAGCACTTAGGAA
GCAGTGCCAAGATCAAGTGTAGCG
GTTGCCATATC<3' (SEQ ID
NO: 2)

5' >TGACGCCCTTCATGGCCTCCA
GGTAGAAAGGGTTGGTGCTCCTGT
GTCTGAGTGGGAAGGCAAGTTGTC
TAGTGGGTGCTTACCCAGTGCCAG
CCTTTAGACATGGTAATGACAGCT
ATCCAGGCCTCACC GCCACCCAG
AACTTACCTAAGCTTACTGTGGGC
TACCCATTTGTACTCTTAACATCC
CTCATCATTTA<3' (SEQ ID
NO: 3)

FIGURE 2B